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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/803,819	03/18/2004	Rae Ellen Syverson	64095753 (27839-143)	7018	
45736 Christopher M.	7590 05/29/200 Goff (27839)	EXAMINER			
ARMSTRONG	TEASDALE LLP		CHANNAVAJJALA, LAKSHMI SARADA		
SUITE 2600	NE METROPOLITAN SQUARE UITE 2600		ART UNIT	PAPER NUMBER	
ST. LOUIS, MO	ST. LOUIS, MO 63102			1611	
			NOTIFICATION DATE	DELIVERY MODE	
			05/29/2009	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

USpatents@armstrongteasdale.com

	Application No.	Applicant(s)			
	10/803,819	SYVERSON ET AL.			
Office Action Summary	Examiner	Art Unit			
	Lakshmi S. Channavajjala	1611			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 11 Au This action is FINAL . 2b) ☑ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-10,12,13 and 15-60 is/are pending i 4a) Of the above claim(s) 5,12,13 and 26-60 is/ 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-4, 6-10 and 15-25 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	are withdrawn from consideration	n.			
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction in the original than the correction of the correcti	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 1/29/09;2/4/09;3/2/09.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

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DETAILED ACTION

Receipt of RCE, amendment and response all dated 3-2-09 is acknowledged.

Claims 1-10, 12, 13 and 15-60 are pending.

Claims 11 and 14 are canceled.

Claims 5, 12, 13 and 26-60 are withdrawn as nonelected.

Claims 1-4, 6-10 and 15-25 have been considered for examination.

In response to the arguments, the following rejection of record has been vacated:

Claims 1-4, 6-10 and 15-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Robbins et al. (J. Clin. Microbiol. 1987) and Lambert (J Applied Microbiol.) in view US 5,612,045 to Syverson or Syverson in view of Robbins et al and Lambert.

1. Upon further consideration, the following new rejection is applied to the pending claims:

Claim Rejections - 35 USC § 103

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-4, 6-10 and 15-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over any one of the following combinations: Lambert (J Applied Microbiol.) and US 5,612,045 to Syverson in view of US 3393678 to Pacini et al and US 4318404 to Cunningham OR unpatentable over Pacini et al in view of Cunningham, Lambert and

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Syverson OR unpatentable over Cunningham in view of Lambert, Syverson and Pacini et al.

Lambert studied the minimum inhibitory concentrations of different antimicrobial compounds against S. aureus and observed that phenoxyethanol and phenyl ethyl alcohol (designated as PoE and PeA respectively) are effective against S. aureus (abstract, page 276, col. 1, table 2, page 278, col. 2 and Discussion), even though the MICs vary with the inoculum levels. Lambert does not teach phenoxyethanol on a non-absorbent article as claimed in the instant invention.

Lambert fails to teach the claimed tampon applicator that is non-absorbent.

Syverson teaches catamenial tampons for absorbing body fluids that include an effective amount of a compound that substantially inhibit the production of exoprotein produced by Gram positive bacteria, particularly produced by S. Aureus (abstract, col. 3, lines 40-60). The compounds of Syverson comprise ethers, which are the same as the elected sub-species of the instant claims (col. 3, lines 61-55). Syverson teaches including effective amounts of ether compounds and combinations of other antimicrobial or antibacterial compounds (col. 5).

While Syverson teaches absorbent tampons, instant claims require tampon applicator that is non-absorbent. Syverson states that the tampon may or may not have an applicator.

Pacini et al teach catamenial devices such as tampons that have antibacterial properties as well as physical lubricity (col. 1, L 8-14). Pacini teach that polymetallic pectinates can be made into films or their dispersions may be sprayed or applied to

materials intended for vaginal tamponing. It is suggested that the compound may be applied t the textile fabric of a tampon or to the external surface of the tubular tampon applicator (col. 2, L 38-51) because menstrual discharges provide a favorable condition for bacterial or other microbial growth (col. 3, L 1-40).

Pacini does not teach the claimed non-absorbent applicator.

Cunningham describes a tampon and its applicator, where the tampon is made of absorbent material and the applicator is made of non-absorbent material (see claim 13 of Cunningham).

It would have been obvious for one of an ordinary skill in the art at the time of the instant invention to use the antibacterial phenoxyethanol of Lambert and the second active agent (ether compounds) taught by Syverson, both of which are effective against S. aureus, in the tampon applicators (Cunningham) because both Lambert and Syverson suggests employing compounds that for inhibiting toxic shock syndrome (caused by S. aureus) caused by the use of tampons, and Pacini suggests that antimicrobial compounds may be employed wither in the tampon fabric itself or in the enclosure that holds tampons (tampon applicator) so as to inhibit the vaginal microbial growth during menstrual cycles.

Alternatively, Pacini does not teach the claimed compounds. However, it would have been obvious for one of an ordinary skill in the art at time of the instant invention to incorporate phenoxyethanol of Lambert and the second active agent of Syverson in the tampon or applicator of Pacini because Lambert teaches phenoxyethanol is effective against S. aureus and Syverson also suggests the claimed second agent for the same

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reason. Further a skilled artisan would have employed a non-absorbent article for the tampon applicator because Cunningham suggests non-absorbent tampon applicators Further, optimizing the amounts of ether (of Syverson) and phenoxyethanol of Lambert, with an expectation to provide the optimum inhibitory effect of S. aureus toxin production would have been within the scope of a skilled artisan.

Response to Arguments

- 3. Applicant's arguments filed 8-11-08 have been fully considered but they are not persuasive.
- 4. Firstly, the previous rejection of record has been withdrawn and the claims are now rejected over a new combination of references. The examiner will not address applicants' arguments regarding the teachings of Robbins because the teachings of Robbins are no longer applicable.

Applicants argue that Lambert discloses a method of examining the effect of inoculum size on the degree of inhibition observed with respect to inhibitor concentration. Specifically, the inoculum size dependencies of phenethyl alcohol, phenoxyethanol, p-chloro-m- cresol, trichloro-phenol, thymol, and dodecyltrimethylammonium bromide against S. aureus were analyzed. It is argued that for all inhibitors examined, it was found that at lower inoculum levels, there was a greater biocidal effect, whereas at higher inoculum levels, there was a greater degree of quenching of the biocide, causing the inhibitor to act more as a simple (sublethal)

inhibitor. Applicants agree that the method developed in Lambert may be used to quantify the effect in the region between reversible and irreversible damage, or sublethal injury to cell death and that according to Lambert that phenethyl alcohol is a better inhibitor than phenoxyethanol against S. aureus.

Applicants' arguments are not persuasive because the teachings of Lambert are analogous to those of Syverson. Further, known work in one field of endeavor may prompt variations of it for use in either the same field or a different one based on design incentives or other market forces if the variations are predictable to one of ordinary skill in the art, In this regard, Lambert teaches different compounds and their effect on the reversible and irreversible damage to various inocolum levels of S. aureus. Hence the arguement that Lambert fail to disclose the use of phenoxyethanol (or any compound having the structure of the first active ingredient) in combination with a second active ingredient is not persuasive.

With respect to Lambert, applicants' argue that phenethyl alcohol is a better inhibitor than phenoxyethanol against S. aureus, the arguments are not persuasive because the teaching of Lambert that phenethyl alcohol is superior to phenoxyethanol does not lead to the conclusion that the latter is not effective in inhibiting S. aureus.

Applicants argue that the references fail to teach the non-absorbent substrate being selected from the group consisting of a non-absorbent incontinence device, a barrier birth control device, a tampon applicator, and a douche for insertion into the vagina for inhibiting exoproteins from Gram positive bacteria as required in claim 1. It is argued that Syverson teaches absorbent articles and not non-absorbent articles.

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Applicants' arguments are not persuasive because newly cited references (Pacini et al (US 3393678) and Cunningham (US 4318404) has been cited to show that antimicrobial agents are known to be applied in the tampon or its applicator, which may be non-absorbent and hence the argument regarding the lack of non-absorbent article of Syverson is moot. Thus, the argument made by applicants that a combination of first and second active agents being present on a non-absorbent substrate are not taught is not persuasive because it would have been obvious for one of an ordinary skill in the art at the time of the instant invention that exoprotein inhibiting compounds may be applied on nonabsorbent tampon articles and still achieve the desired inhibitory activity. One of an ordinary skill in the art would have been motivated to include phenoxyethanol of Lambert & the second compound of Syverson on non-absorbent tampon applicators of Cunningham with a reasonable expectation that phenoxyethanol and the second active agent of Syverson provide effective inhibition of exoprotein produced by S. aureus.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lakshmi S. Channavajjala whose telephone number is 571-272-0591. The examiner can normally be reached on 9.00 AM -5.30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sharmila G. Landau can be reached on 571-272-0614. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

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published applications may be obtained from either Private PAIR or Public PAIR.

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Lakshmi S Channavajjala/ Primary Examiner, Art Unit 1611 May 13, 2009